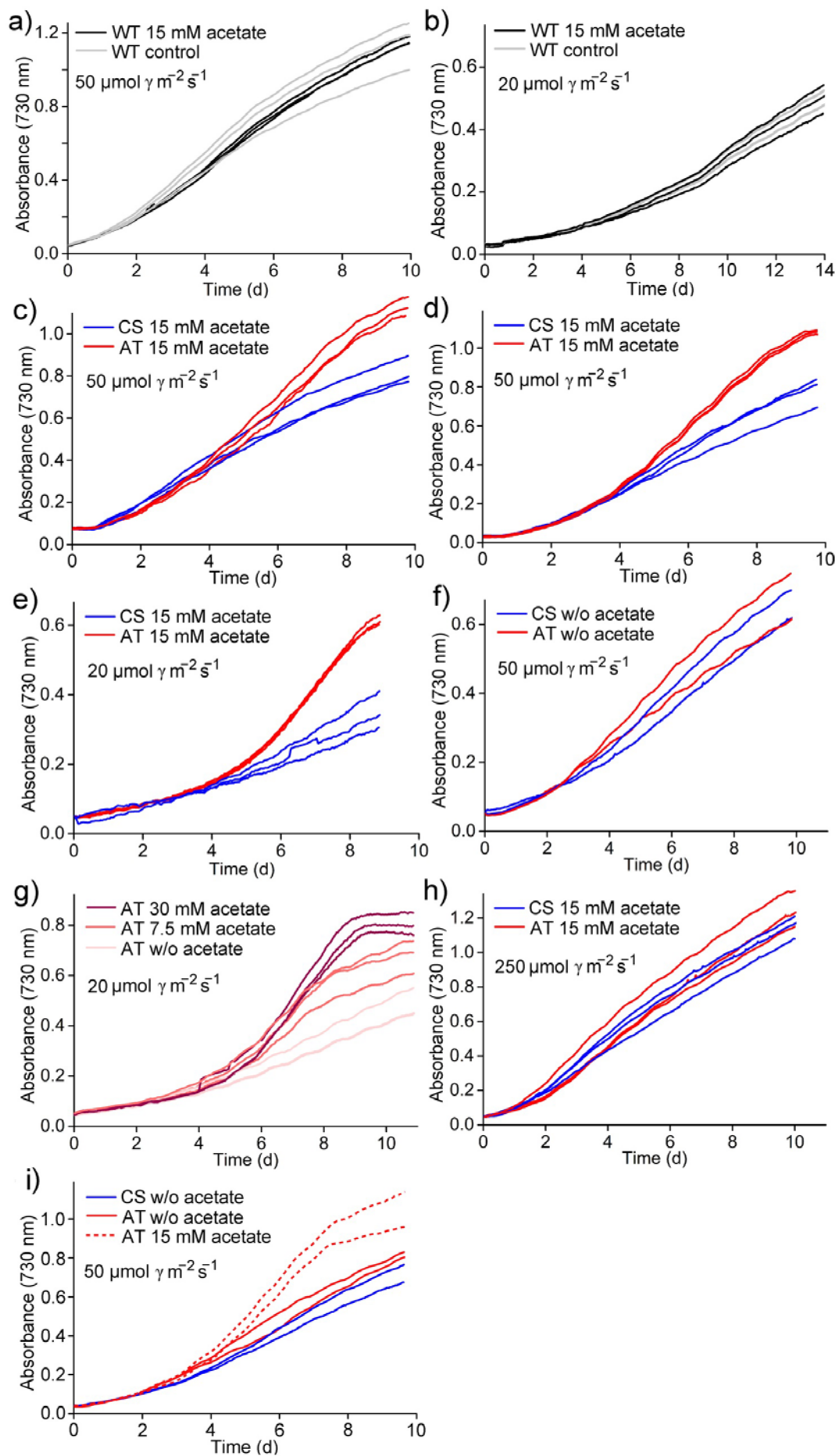




Additional file 2: Biological replicates of the representative *Synechocystis* sp. PCC 6803 growth curves shown in Figure 1. Wild type strain (WT) grown in the presence of 15 mM supplemented acetate (black line) and in the absence of acetate (grey line) **a)** under continuous light of 50 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ for 10 d and **b)** under continuous light of 20 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ for 14 d. Acetate transporter expression strain (AT; red line) and control strain (CS; blue line) grown with 15 mM supplemented acetate starting from **c)** $\text{OD}_{750} = 0.1$ and **d)** $\text{OD}_{750} = 0.05$ under continuous light of 50 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ for 10 d. **e)** AT and CS grown under continuous light of 20 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ for 9 d with 15 mM supplemented acetate. **f)** AT and CS grown in the absence of acetate or IPTG induction under continuous light of 50 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ for 11 d. **g)** AT cultivated with supplemented with 30 mM acetate (dark red line), 7,5 mM acetate (red line) and no acetate (light red line) under continuous light of 20 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ for 11 d. **h)** AT and CS grown for 11 d under continuous light of 250 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ with 15 mM supplemented acetate. An additional pane **i)** not included in Figure 1, showing AT (red line) and CS (blue line) cultivated under continuous light of 50 $\mu\text{mol photons m}^{-2} \text{s}^{-1}$ for 10 d (starting at $\text{OD}_{750} = 0.05$) as in “d” without acetate (solid line) and in the presence of 15 mM acetate (dashed line). All cultures were started from $\text{OD}_{750} = 0.05$, and AT and CS were grown in the presence of IPTG, unless stated otherwise. AT and CS were always cultivated with 25 $\mu\text{g/ml}$ Spec and 12,5 $\mu\text{g/ml}$ Str to maintain the selection pressure for the expression plasmid (c-i), which resulted in slower overall growth in comparison to WT cultured without antibiotics (a-b). The growth curves presented in each of the panes a-i are parallels from the same MC1000 cultivation.